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The map leaves much to be desired, but taking into consideration the number of things it purports to show, it does well. However, it is a good example of what happens when one attempts to represent the salient features of a great State on a single page. It simply can not be done.

It is to be regretted that the relatively trivial errors and omission which we have indicated should appear in a work of such a generally high standard of excellence, but they should not be construed as reflecting seriously on the results of an undertaking based so largely on original investigation of a high order of merit, and representing an amount of painstaking study which can be fully appreciated only by those who have attempted similar labors.—EDWARD A. PREBLE, *Biological Survey, Washington, D. C., May 13, 1921.*

EVERMANN AND CLARK ON THE FAUNA OF LAKE MAXINKUCKEE.*—"The Birds" occupy a relatively unimportant position in this comprehensive report (pages 481 to 579 of the first volume) as compared with certain other groups of animals or plants, but there is, nevertheless, a great deal that is of interest and value here placed on record regarding the species treated. One hundred and seventy-five species and subspecies are listed (305 are attributed to the entire state in Butler's *Birds of Indiana*), those given in greatest detail being naturally the water birds and those most closely confined to lacustrine or riparian surroundings. The lakes and rivers of northern Indiana in years past formed a veritable hunter's paradise and although the myriads of water fowl have since been sadly reduced in quantity, we can still see in the numbers of species represented at least an indication of former conditions.

The accounts of the birds are written in Dr. Evermann's pleasing and unhackneyed style, with the spirit of the enthusiastic collector cropping out in many places.

Residents of Indiana have available in this report a store of detailed and authentic information pertaining to the natural history of the northern part of the state. Lovers of nature from other sections should derive a great deal of pleasure from the narratives relating to various of the species

concerned, even though unfamiliar to the reader. Incidentally it may be suggested that even an ornithologist can find much to enjoy in some sections of the book relating to things other than birds, such as the parts that deal with the reptiles and fishes.—H. S. SWARTH.

MINUTES OF COOPER CLUB MEETINGS

SOUTHERN DIVISION

FEBRUARY.—The regular meeting of the Cooper Ornithological Club, Southern Division, was held at the Southwest Museum, together with the Bird Lovers' Club, at 8 p. m., February 24, 1921. The special feature of the evening was the exhibition of a large number of excellent lantern slides, mostly of birds and nests, by President Dickey. This entertainment was enjoyed by an enthusiastic audience of some sixty members of the Cooper Club, Bird Lovers' Club, and the Audubon Society.

Followed the business meeting, at which Dr. Miller presided, at the request of President Dickey. Minutes of the January meeting were read and approved, followed by reading of minutes of January meeting of the Northern Division. January membership presentations received favorable action, on motion of Dr. Rich, seconded by Dr. Bishop. New names were: W. B. Purdy, Milford, Mich., by Wright M. Pierce; Mrs. C. E. Raymond, Hinsdale, Ill., and H. H. T. Jackson, Washington, D. C., by W. Lee Chambers; William Warren Moore, Eureka, by John M. Davis; William Rowan, Edmonton, Alberta, Canada, by W. L. Chambers; Walter Cunningham, Kansas City, Mo., by Harry Harris; Dr. Frances Louise Long, Helen S. Nicholson, and Herschel Vincent Hibbard, Tucson, Ariz.; also Mrs. M. F. Musgrave, Phoenix, Ariz., by Charles T. Vorhies.

Dr. Miller announced that Mr. W. L. Finley will exhibit moving pictures of birds at the March meeting of the Club, and extended an invitation to all present to attend that meeting. Informal discussion of bird matters completed the session.—L. E. WYMAN, *Secretary.*

MARCH.—The regular meeting of the Southern Division, Cooper Ornithological Club, was held in the assembly room of the State Exposition Building, Exposition Park, at 8 p. m., March 31, 1921. President Dickey was in the chair, with an audience of 150, among whom were 35 club members.

*Lake Maxinkuckee, a physical and biological survey. By Barton Warren Evermann and Howard Walton Clark. Published by the Department of Conservation, State of Indiana, 1920. Vol. 1, 660 pp., 32 halftones, 36 colored pls., 23 text-figs., 1 map; vol. 2, 512 pp.

On proper motion the entertainment feature of the evening preceded the business meeting. This consisted of a lecture, illustrated by wonderful moving pictures of birds and mammals, by Mr. W. L. Finley, and was hugely enjoyed by all present as being not only entertaining but highly instructive.

Followed a short recess, when formal business was taken up. Minutes of the previous meeting were read and approved, while reading of those of the Northern Division was waived. New presentations were as follows: Mrs. Delpha S. Miller, Glendale, by Loye Miller; Frederick Norman Gallup, Escondido, by C. S. Sharp; Max Walker de Laubenfels, La Grange, Ill., by W. Lee Chambers; Delacourt Kell, Claremont, by Wright M. Pierce. The Northern Division sent the names of Ella B. Drummond, Berkeley; J. W. Winson, Huntington, B. C.; Lionel V. Taylor, Kelowna, B. C.; Kenneth Racey, Vancouver, B. C.; Carroll McGettigan, San Francisco.

The resignation of Mr. Howell as vice-president was tendered and accepted on motion of Dr. Rich, seconded by Mr. Chambers. Nominations of Dr. Rich and Mr. Pierce to fill the vacancy brought the withdrawal of the former; and on motion of Dr. Miller the secretary was instructed to cast a favoring ballot for Mr. Pierce, who was declared elected.

Messrs. Chambers and Miller were named to assist the president in formulating resolutions on the death of John Lewis Childs, on motion of Dr. Miller that the chair appoint a committee of three, including the chairman, for this purpose. A motion by Dr. Miller, seconded by Mr. Little, that the executive committee be designated as the official committee on entertainment, was unanimously carried. Adjourned.—L. E. WYMAN, *Secretary*.

APRIL.—The regular monthly meeting of the Cooper Ornithological Club, Southern Division, was held April 28, 1921, at 8 p. m., at the Museum of History, Science and Art. President Dickey presided. About fifty members and friends attended. The chief feature of the evening was a talk by Dr. L. H. Miller on Notes of Birds. This was amply illustrated by imitations of bird calls and songs, and was thoroughly enjoyed by all present.

Following a brief recess, minutes of the March meeting were read and approved. New applications for membership were: Brasher C. Bacon, Madisonville, Ky., by D.

Bernard Bull; Clarence Abram Barnes, Los Angeles, by W. Lee Chambers; and R. W. Limbert, Boise, Idaho, by George Tonkin. A communication from the vice-president of the California Art Club, relative to a contribution by the Cooper Club to a proposed fund to erect a memorial to the late F. S. Daggett, was presented. On motion by Mr. Law, the secretary was instructed to advise the writer that the Cooper Club had no fund available for that purpose, and to transmit the names of individuals who might wish to contribute.

A request, from the Atascadero Chamber of Commerce, for the Club's endorsement of a proposed "bird pageant", was tabled pending further information on the subject, and Mr. Chambers was requested to investigate and report at a later meeting.

The committee on resolutions on the death of Mr. Childs reported as follows:

Whereas, science, if it is to function fully, must of necessity enroll in its support not only the trained specialist, but, equally, the scientific enthusiast who brings much of his heart, although but part of his time, to its service; and

Whereas, in the passing of the late John Lewis Childs the Cooper Ornithological Club has lost a member who filled that latter niche in Club affairs with peculiar force, who stood always ready to give unstintingly of constructive suggestion or material aid in a degree which only those who piloted the Club through early years can ever fully know, who was at once an inspiration to some of us in student days and later a reliance to some, in furthering our scientific ends, but who was to us all a fellow member who brightened many meetings with a quiet charm we will not soon forget;

Now, therefore, be it resolved, that the Southern Division of this society spread upon its minutes this expression of admiration for his life,—of heart-felt bereavement in his death.

On motion of Dr. Miller, seconded by Mr. Appleton, the report was accepted by a rising vote.

A brief informal discussion of bird matters completed the session. Adjourned.—L. E. WYMAN, *Secretary*.

MAY.—Regular meeting of the Southern Division, Cooper Ornithological Club, was held at 8 p. m., May 26, 1921, at the Museum of History, Science and Art. In the absence of President Dickey, Vice-President Pierce occupied the chair. About thirty members and friends attended.

The formal business meeting was preceded by an address on the "Evolution of the Hawaiian Bird Fauna", by Prof. William Alanson Bryan. Prof. Bryan is an authority on the subject, by virtue of long resi-

dence in those islands and extensive study of their fauna, and his talk was appreciated by all.

Business matters were taken up after a brief intermission. Minutes of the April meeting were read and approved. Minutes of the Northern Division were read by title only. Applications for membership were presented as follows: W. A. Hilton, Claremont, Calif., by Wright M. Pierce; Mrs. G. H. Schneider, by Helen S. Pratt; Wm. Alanson Bryan, Los Angeles Museum, Exposition Park, by L. E. Wyman; Lieut. L. R. Wolfe, 64th U. S. Infantry, Camp Meade, Md., by W. Lee Chambers; Frances Vermilyea Barnes, by W. Lee Chambers; Miss Dorothy K. Austin, Pasadena, Calif., by Miss Ethel K. Crum. The Northern Division sent the names of Miss Florence Van Gassbeek and Charles H. Baker.

A communication from the Secretary of the Pacific Division of the A. A. A. S. relative to the annual meeting was presented and the secretary instructed to acknowledge receipt and advise that the Northern Division would represent the club in the matter of arrangements.

A letter from the Librarian of the Los Angeles Public Library soliciting support at the coming election in the matter of a bond issue for a library building was read and ordered filed. A further communication from the Atascadero Chamber of Commerce relative to endorsement of a proposed bird pageant was considered unsatisfactory, and on motion of Dr. Miller, seconded by Mr. Brown, was likewise ordered filed.

Followed the usual round of informal discussion of bird matters, during which the abnormal bird movement and nesting was generally commented upon and ascribed to the abnormal season. Adjourned.—L. E. WYMAN, *Secretary*.

NORTHERN DIVISION

APRIL.—The Northern Division of the Cooper Ornithological Club met at the Museum of Vertebrate Zoology April 28 at 8 p. m. President Wright presided, and the following members were present: Mesdames Allen, Ayer, Bamford, Blake, Boyle, Burk, Drummond, Flinn, Van Gassbeek, Griffin, Grinnell, Mead, Neugass, Pitcher, Reygadas, Roe, Schlesinger, Woodruff; Messrs. Bell, Carriger, Dixon, Evermann, Kellogg, Lastreto, Storer, Swarth, and Wheeler; Visitors, Miss Beaman, Miss Cassidy, Mrs. Evermann, Miss Kellogg, Mrs. Wheeler, and Messrs. Baker, Miller, and Farber.

[The March meeting of the Northern Division was held informally in Golden Gate Park; no business being transacted, there were no minutes filed.]

The February and March minutes of the Southern Division were read. Names proposed were: George R. Field, Requa, Del Norte Co., by Tracy I. Storer; Mrs. Minnie Buhn, Alameda, Miss Dora H. Shinn, San Mateo, and Chas. H. Baker, Oakland, by H. C. Bryant, and Miss Florence Van Gassbeek, Berkeley, by Mrs. Georgia T. Roe.

A letter from the secretary of the Pacific Division of the A. A. A. S. announcing preliminary arrangements of the meeting to be held in Berkeley in August was read by the secretary. It was voted that the president appoint a committee on entertainment to cooperate with the general committee of the University. Mr. Baker presented an offer of a prize to consist of \$50 to \$100 to be offered for the best essay written by a student in the University on some subject connected with economic ornithology. The secretary was instructed to forward the offer to Dr. Grinnell.

The report of the committee appointed to consider Dr. Bryant's resolution relating to the collecting of specimens, sent in a written report in favor of referring the matter to the Board of Governors. The report was adopted.

Business disposed of, Mr. Robert C. Miller gave a talk on "The Flock Behavior of the Coast Bush-tit". After discussion, the club adjourned.—AMELIA S. ALLEN, *Secretary*.

MAY.—The Northern Division of the Cooper Ornithological Club met at the Museum of Vertebrate Zoology, Berkeley, May 26, at 8 p. m. President Wright was in the chair, with twenty-one members and visitors in attendance. Minutes of the April meeting were read and approved, and April minutes of the Southern Division were read. Names proposed were: Mr. William Polk Farber, Berkeley, Calif., proposed by Tracy I. Storer; and Mrs. Mildred Tiffany Wood, Holland, Calif., by Mrs. Eva D. Roe. Mr. Storer reported briefly on a recent article in *The Ibis* by Col. R. Meinertzhagen, upon accurate determination of the velocity of various birds in ordinary and migration flights.

Mr. H. R. Noack presented the paper of the evening, his subject being "Some Experiences with Aviary Birds". A general discussion followed. Adjourned.—TRACY I. STORER, *Secretary pro tem*.